

V. Balasubramanian

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FILE 'HOME' ENTERED AT 18:51:40 ON 17 APR 2001

=> file reg

09/678,330

Page 1

V. Balasubramanian

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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L1 SCREEN CREATED

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L2 STRUCTURE UPLOADED

=> que L2 AND L1

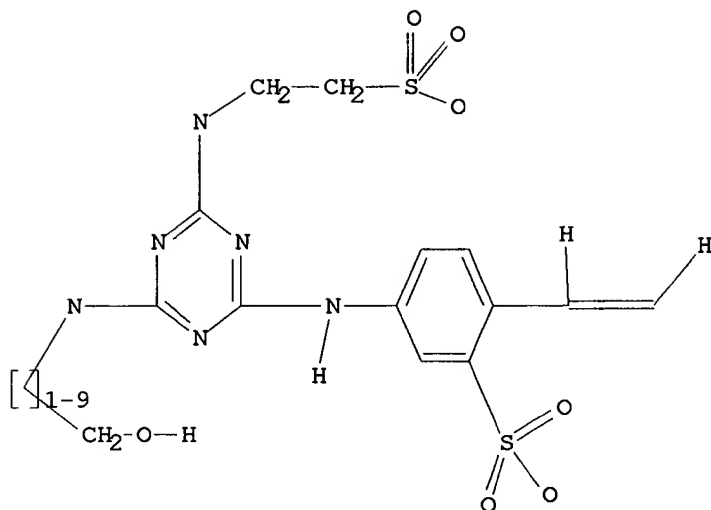
L3 QUE L2 AND L1

=> d l2

L2 HAS NO ANSWERS

L2 STR

V. Balasubramanian



Structure attributes must be viewed using STN Express query preparation.

=> s l2 sss sam

SAMPLE SEARCH INITIATED 18:52:24 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 17 TO ITERATE

100.0% PROCESSED 17 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 93 TO 587
PROJECTED ANSWERS: 2 TO 124

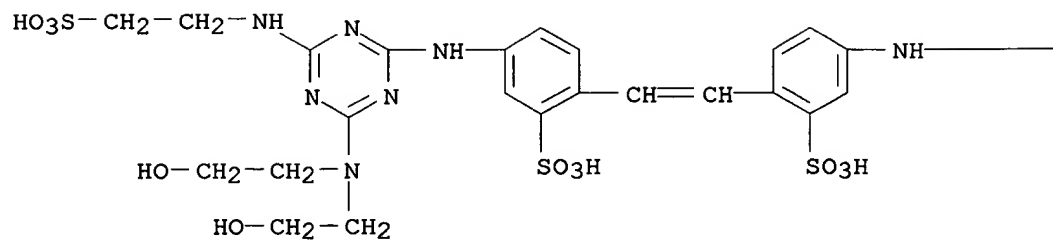
L4 2 SEA SSS SAM L2

=> d scan

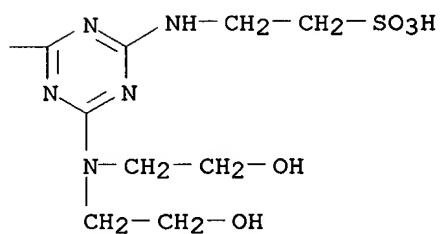
L4 2 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, compd. with 2,2'-iminobis[ethanol] (1:4) (9CI)
MF C32 H44 N12 O16 S4 . 4 C4 H11 N O2

CM 1

PAGE 1-A



PAGE 1-B

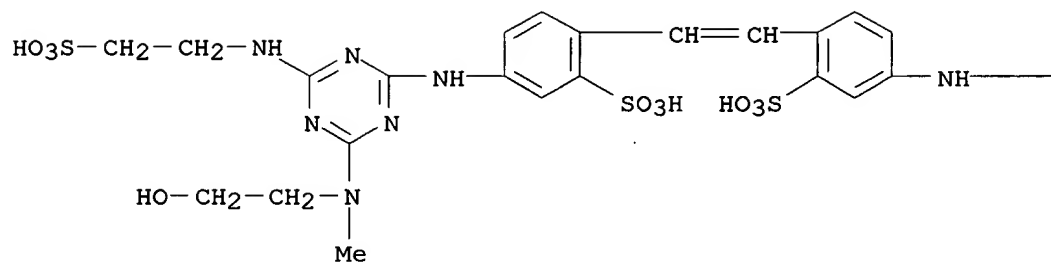


CM 2

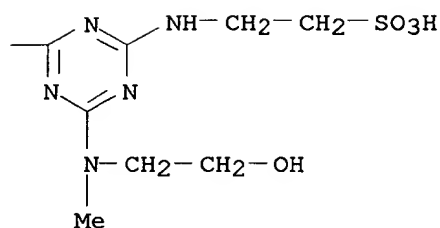


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L4 2 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2,2'-Stilbenedisulfonic acid,
 4,4'-bis[[4-[(2-hydroxyethyl)methylamino]-6-
 [(2-sulfoethyl)amino]-s-triazin-2-yl]amino]-, tetrasodium salt (8CI)
 MF C30 H40 N12 O14 S4 . 4 Na



● 4 Na



ALL ANSWERS HAVE BEEN SCANNED

=> s l2 sss ful

FULL SEARCH INITIATED 18:52:55 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 296 TO ITERATE

100.0% PROCESSED 296 ITERATIONS
 SEARCH TIME: 00.00.02

17 ANSWERS

L5 17 SEA SSS FUL L2

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

133.87

134.02

FILE 'CAPLUS' ENTERED AT 18:53:06 ON 17 APR 2001
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09/678,330

Page 5

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FILE COVERS 1967 - 17 Apr 2001 VOL 134 ISS 17
FILE LAST UPDATED: 16 Apr 2001 (20010416/ED)

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This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

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The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

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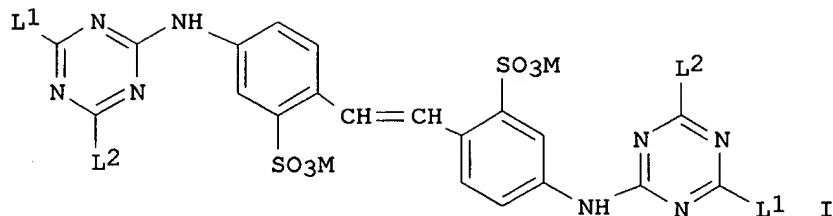
L6 17 L5

=> d 16 1-17 bib abs hitstr

L6 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2001 ACS
AN 1998:251403 CAPLUS
DN 128:328731
TI Method for processing camera-use silver halide color photographic material
using a stilbene-containing fixer
IN Sakurazawa, Mamoru
PA Fuji Photo Film Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 47 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10104809	A2	19980424	JP 1996-261023	19961001
GI					

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AB Claimed method utilizes a fixing soln. contg. a triazinylaminostilbene I (L1, L2 = OR1, NR2R3; R1, R2, R3 = H, alkyl), in which the color photog. material is for camera-use and has .gtoreq.2 each of blue-, green- and red-sensitive emulsion layers. The compd. I is a fluorescent brightener effective in fixing soln. and washes out the residual dyes, consequently it reduces color stain remaining in the processed material. Thus, a

fixer

soln. contg. the fluorescent brightener I (L1, L2 = NaSO3C2H4NH-) or I (L1, L2 = NaSO3OC2H4O-), etc. was applied to the processing of multilayer color neg. films and showed the mentioned advantages.

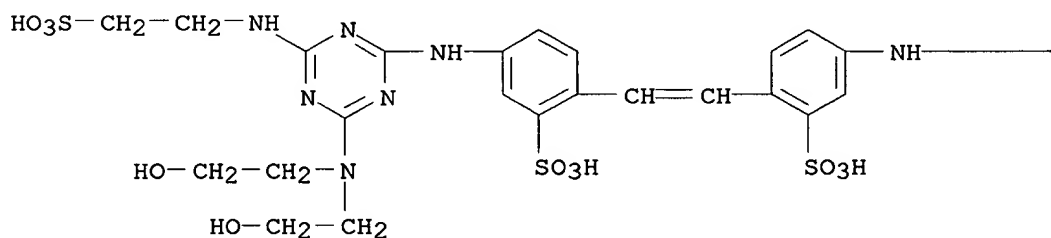
IT 119729-06-5

RL: TEM (Technical or engineered material use); USES (Uses)
(processing color photog. film using triazinylaminostilbene-contg. fixer)

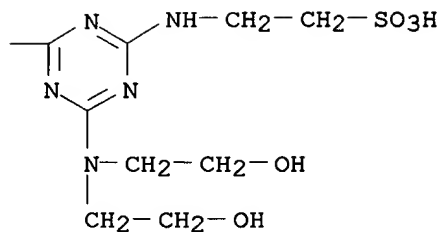
RN 119729-06-5 CAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● 4 Na



L6 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2001 ACS

AN 1997:636394 CAPLUS

DN 127:324410

TI Silver halide color photographic material with low residual color for easy

color compensation and good color reproducibility

IN Sakurazawa, Mamoru; Sakurada, Masami; Mikoshiba, Hisashi; Taniguchi, Masato

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 61 pp.

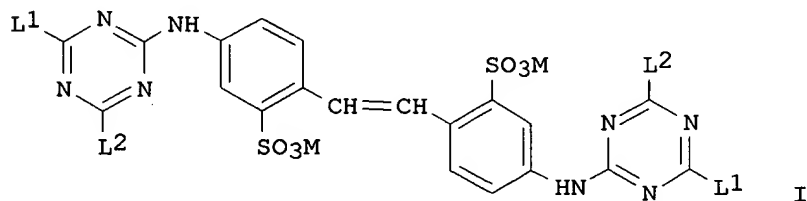
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09251197	A2	19970922	JP 1996-86005	19960315
GI					



AB In the title photog. material comprising red, green and blue-sensitive layers, the photog. material contains a triazinyl-having stilbene compd.

I

(L1, L2 = OR1, NR2R3, SO3M, OSO3M, CO2M, NR3X, OR, NR'R" CN, NHCONH2;

R1-3

= H, alkyl; M = H, alk. metal, tetraalkylammonium, pyridium; R, R', R" = alkyl; R' may joint with R" to form a ring) and a hydroxy amine compd. such as R1aR2aNOH(R1a alkyl, cycloalkyl, alkenyl, cyclo alkenyl, aryl, acyl, alkyl- or arylsulfonyl, carbamoyl, sulfamoyl, alkoxy carbonyl, aryloxy carbonyl; R2a = H or group defined as R1a).

IT

119729-06-5 164515-94-0

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

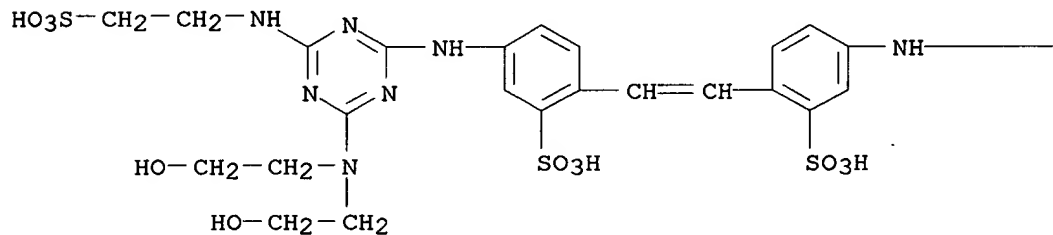
V. Balasubramanian

(stilbene compd. as fluorescent whitening agent contained in color photog. film)

RN 119729-06-5 CAPLUS

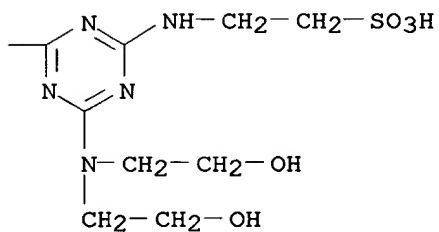
CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● 4 Na

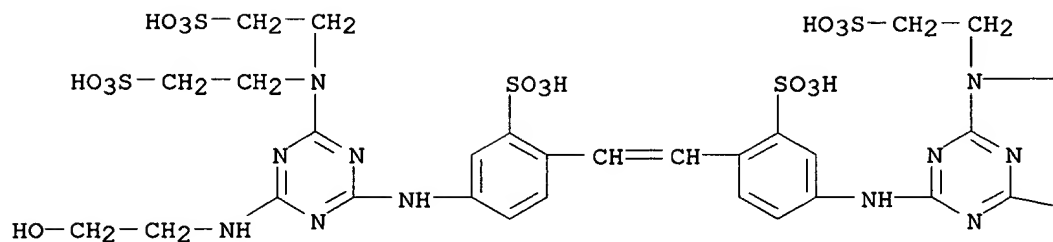
PAGE 1-B



RN 164515-94-0 CAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-sulfoethyl)amino]-6-[(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-, hexasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● 6 Na

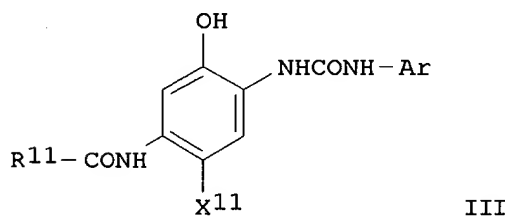
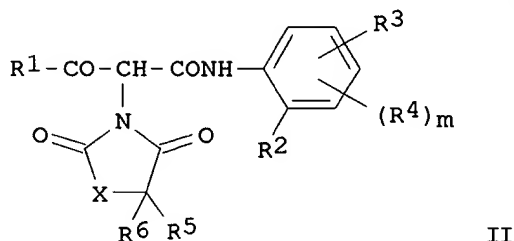
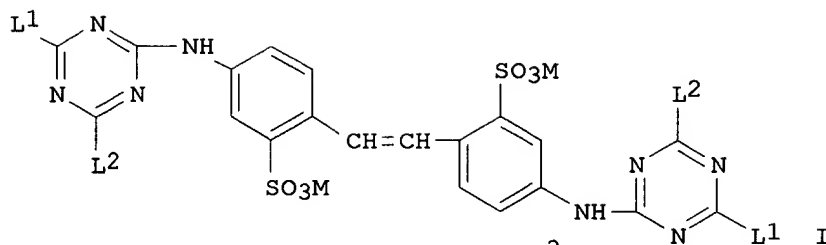
PAGE 1-B

— CH₂—CH₂—SO₃H

— NH—CH₂—CH₂—OH

L6 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2001 ACS
 AN 1997:633008 CAPLUS
 DN 127:324406
 TI Silver halide photographic material with improved color reproduction
 IN Sakurazawa, Mamoru; Sakurada, Masami
 PA Fuji Photo Film Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 62 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09251196	A2	19970922	JP 1996-84457	19960314
GI					



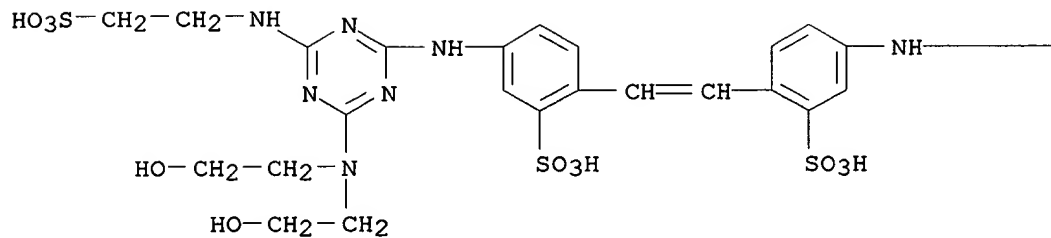
AB In the title material comprising .gtoreq.1 yellow coupler-contg. blue-sensitive Ag halide emulsion layer(s), .gtoreq.1 magenta coupler-contg. green-sensitive Ag halide emulsion layer(s), and .gtoreq.1 cyan coupler-contg. red-sensitive Ag halide emulsion layer(s) on a support, the material contains a fluorescent brightener I (L1, L2 = -OR1, -NR2R3; R1-3 = H, alkyl; L1 and L2 may contain .gtoreq.4 substituents selected from -SO3M, -OSO3M, -COOM and -NR3X; L1 and L2 may contain .gtoreq.2 substituents selected from -SO3M, -OSO3M, -COOM and -NR3X and .gtoreq.2 substituents selected from -OR, -NR'R'', -CN and -NHCONH2; M = H, alkali metal, tetraalkyl ammonium, pyridinium; R, R', R'' = H, alkyl; R'-R'' may form ring) and the yellow coupler is represented by II (R1 = tertiary alkyl; R2 = halo, alkoxy, aryloxy, alkyl, alkylsulfonyloxy, cycloalkyl; R3 = alkoxycarbonyl, alkylsulfonyloxy; R4 = halo, alkyl, alkoxy, carbonamide, sulfonamide; m = 0-2; R5, R6 = H, alkyl; X = O, S, imino). The cyan coupler may be represented by III (R11 = aliph., arom., heterocyclic; Ar = arom.; X11 = H, group capable of leaving upon coupling reaction with arom. primary amine developer oxide). The material reduces residual color caused by spectral sensitization dyes.

IT **119729-06-5 197661-28-2**

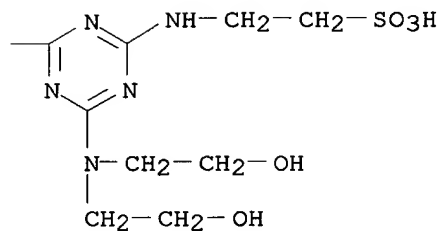
RL: MOA (Modifier or additive use); USES (Uses)
(fluorescent brightener in Ag halide photog. material with improved color reprodn.)

RN 119729-06-5 CAPLUS

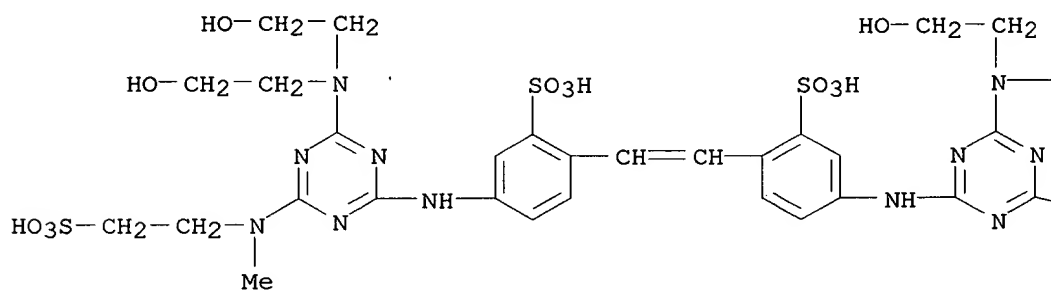
CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (9CI) (CA INDEX NAME)



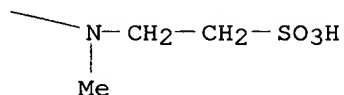
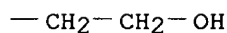
● 4 Na



RN 197661-28-2 CAPLUS
 CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[methyl(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (9CI) (CA INDEX NAME)



● 4 Na



L6 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2001 ACS

AN 1996:262110 CAPLUS

DN 124:356113

TI Method for processing silver halide photographic material using common wash water or stabilizer

IN Ishikawa, Takatoshi

PA Fuji Photo Film Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 76 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08022110	A2	19960123	JP 1994-173103	19940704

OS MARPAT 124:356113

GI For diagram(s), see printed CA Issue.

AB The claimed method for processing .gtoreq.2 kinds of different silver halide photog. material comprises (a) chromogenic development, (b) desilvering process, and (c) washing or stabilizing in which the wash water or stabilizer soln. has the surface tension 20-60 dyne/cm. Also claimed is the application of the process to the material contg. pyrazoloazole coupler I (R1 = H, substituent; Z = 5-membered condensedazole having 2-4 N atoms; X = H, leaving group to be released by the coupling reaction with the oxidized developing agent) or anilinopyrazole coupler II (R11 = substituent; R12 = electron-attracting group; m = 1-5;

n = 2-5; X1 = leaving group to be released by the coupling reaction with the oxidized developing agent; coupler II may form a bis- or poly-pyrazolon by R11, R12 or X1 through a bivalent linkage). The stabilizer preferably contains a fluorescent brightener of ethylene-bis(sulfophenylaminotriazole) type.

IT 164515-94-0P

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material

use); PREP (Preparation); USES (Uses)

(fluorescent brightener; processing of Ag halide photog. material using

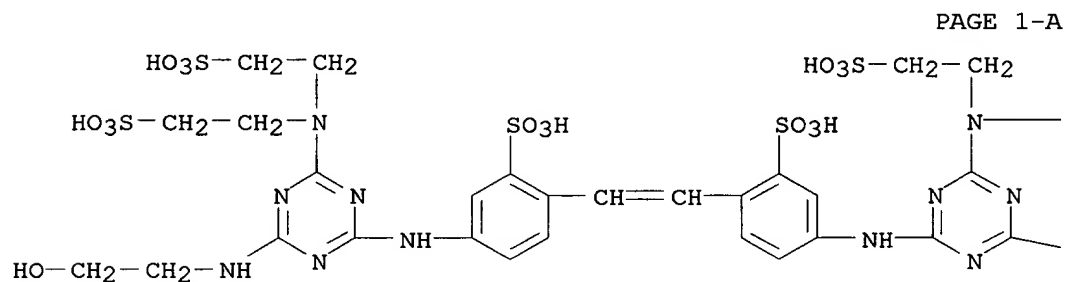
common wash water or stabilizer)

09/678,330

Page 13

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RN 164515-94-0 CAPLUS
CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-sulfoethyl)amino]-6-[(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-, hexasodium salt (9CI) (CA INDEX NAME)



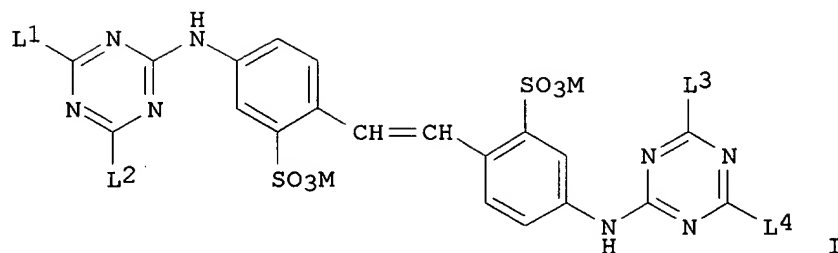
PAGE 1-B

— CH₂—CH₂—SO₃H

— NH—CH₂—CH₂—OH

L6 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2001 ACS
AN 1996:50756 CAPLUS
DN 124:189400
TI Method for processing silver halide color photographic paper and negative film by using common color developer solution
IN Fujimoto, Hiroshi
PA Fuji Photo Film Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 61 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07270991	A2	19951020	JP 1994-79277	19940328
OS	MARPAT 124:189400				
GI					



AB The claimed method comprises processing 2 different types of Ag halide color photog. material using a common processing soln. in which one of the photog. materials is for camera use and is characterized by (1) that the coated wt. of light-sensitive Ag halide is 2.0-10.0 g Ag/m² and (2) that the emulsion comprises tabular Ag halide grains contg. 50-100 mol% of AgCl, and the other is for print use comprising Ag halide grains contg. .gtoreq.80 mol% of AgCl. A developer for the process may contain a fluorescent brightener of diaminostilbene I (L1-4 = OR3, NR4R5, halo, H, OH, alkyl, alkoxy, sulfo, ; R3-5 = H, alkyl). The camera film and print material specifying the above can be processed in a common solns. successfully.

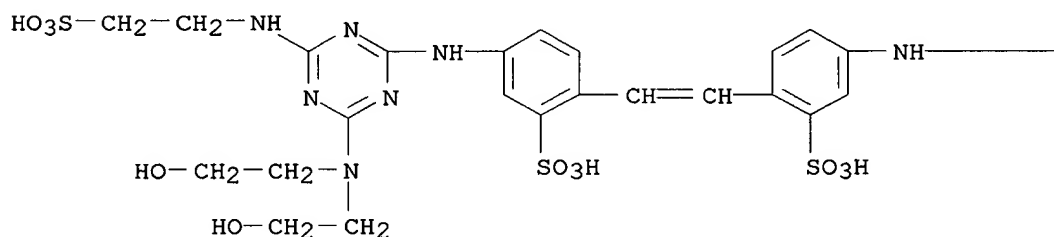
IT 119729-06-5

RL: TEM (Technical or engineered material use); USES (Uses)
(fluorescent brightener; processing of Ag halide color photog. paper and neg. film by using common color developer contg. aminostilbene)

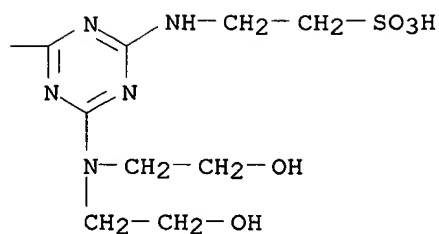
RN 119729-06-5 CAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

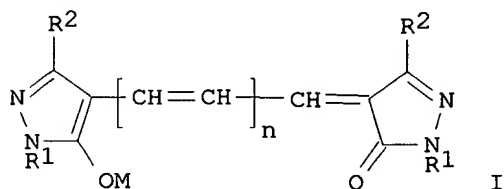


● 4 Na



L6 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2001 ACS
 AN 1995:767612 CAPLUS
 DN 123:183381
 TI Silver halide color photographic processing with suppressed stain formation
 IN Deguchi, Yasuaki
 PA Fuji Photo Film Co Ltd, Japan
 SO Jpn. Kokai Tokkyo Koho, 70 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07140625	A2	19950602	JP 1993-311057	19931118
OS	MARPAT 123:183381				
GI					



AB The title processing includes washing and/or stabilizing the photog. material contg. I (R1 = H, alkyl; R2 = substitute; n = 0, 1, 2; M = H, alkali metal) with replenishing soln. of .ltoreq.120 mL/m2. The processing duration includes .ltoreq.25 s of a desilvering process and completes .ltoreq.120 s. The processing is carried out in the presence of

claimed diaminostilbene compds.

IT **119729-06-5**

RL: MOA (Modifier or additive use); USES (Uses)

(silver halide color photog. processing with suppressed stain formation)

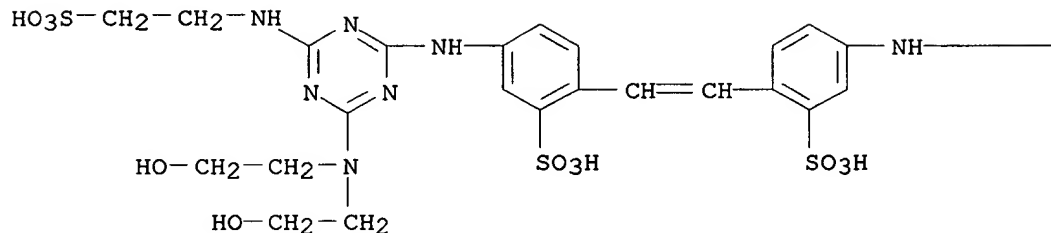
RN 119729-06-5 CAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-,

V. Balasubramanian

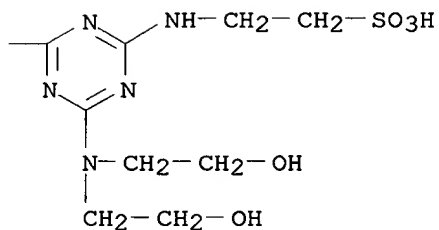
tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● 4 Na

PAGE 1-B



L6 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2001 ACS

AN 1995:657553 CAPLUS

DN 123:44267

TI A diaminostilbene series compound and a method for forming an image using the same.

IN Deguchi, Yasuaki; Kubo, Toshiaki

PA Fuji Photo Film Co., Ltd., Japan

SO Eur. Pat. Appl., 79 pp.

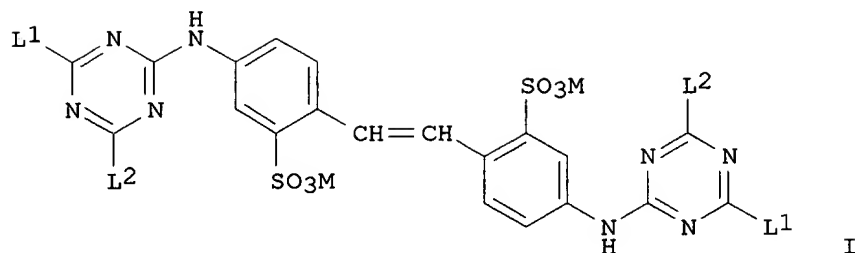
CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 626374	A2	19941130	EP 1994-107713	19940518
	R: BE, DE, FR, GB, NL				
	JP 06329936	A2	19941129	JP 1993-138999	19930518
	US 5395742	A	19950307	US 1994-243175	19940516
PRAI	JP 1993-138999		19930518		
OS	MARPAT 123:44267				
GI					



AB There is disclosed a novel diaminostilbene series compd., a method for forming an image using the same, and a compn. comprising the same. The diaminostilbene compd. is I [L1 and L2 = -OR1 or -N-R2(R3), wherein the 4 substituents L1 and L2 have .gtoreq.4 substituents in total selected from substituents SO3M, OSO3M, CO2M, NR3X; R1 and R2 each = a H atom, an alkyl group, or an alkyl group having a substituent selected from substituents SO3M, OSO3M, CO2M, NR3X; R3 = R1 except H; M = a H atom, an alkali metal, an NH4+, or a pyridinium; X = a halogen atom; R = an alkyl group].

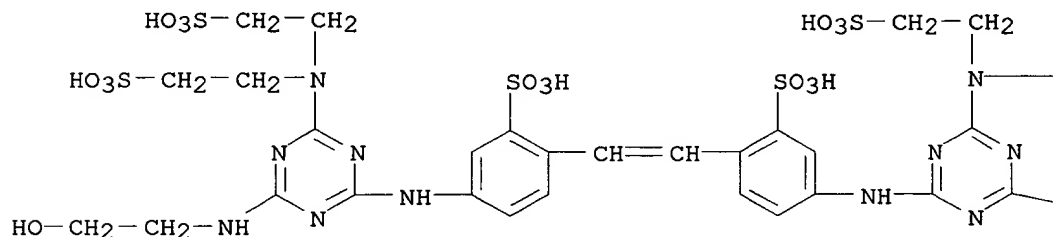
IT **164515-94-0P**

RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(stabilizer for crystn. prevention in photog. processing soln.)

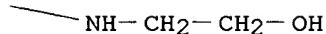
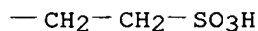
RN 164515-94-0 CAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-sulfoethyl)amino]-6-[(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-, hexasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

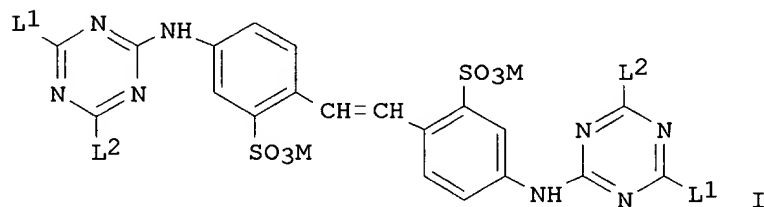


● 6 Na



L6 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2001 ACS
 AN 1995:526757 CAPLUS
 DN 122:277996
 TI Method for forming silver halide color photographic image
 IN Deguchi, Yasuaki
 PA Fuji Photo Film Co Ltd, Japan
 SO Jpn. Kokai Tokkyo Koho, 82 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06332127	A2	19941202	JP 1993-138993	19930518
GI					

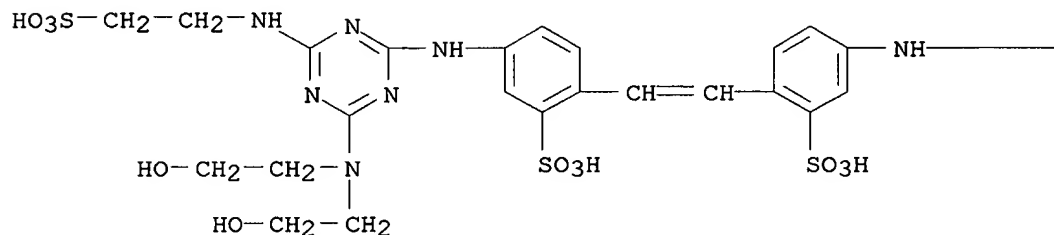


AB In the title method comprising the steps of (a) an imagewise exposure of
 a
 photosensitive Ag halide emulsion layer on a support, (b) development,
 (c)
 desilverization, and (d) H₂O rinse, and/or (e) stabilization, (1) a Ag
 halide emulsion used in the material comprises a AgCl-based emulsion with
 a AgCl content .gtoreq.90 mol%, (2) an amt. of soln. used in said steps
 is
 200 mL per 1 m² of the photosensitive material, and (3) .gtoreq.1 of said
 steps is carried out in the presence of a compd., I [L_{1,2} = OR₁, NR₂R₃;
 R₁₋₃ = H, alkyl; M = H, alkali metal, tetraalkylammonium, pyridinium].
 IT **119729-06-5 162784-05-6**
 RL: TEM (Technical or engineered material use); USES (Uses)
 (formation of silver halide color photog. image)
 RN 119729-06-5 CAPLUS

V. Balasubramanian

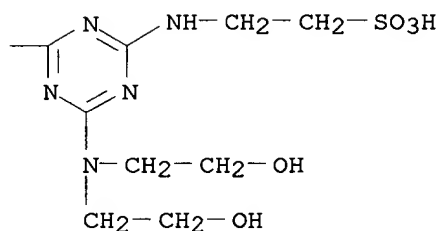
CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● 4 Na

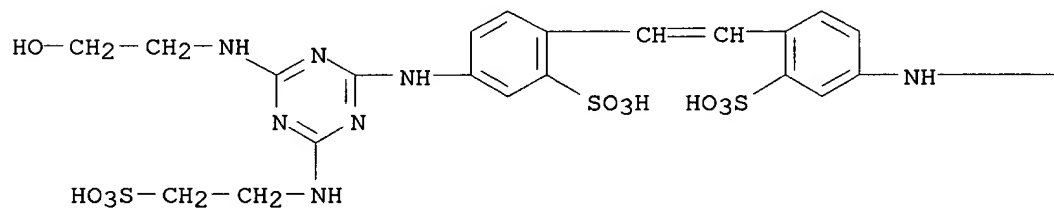
PAGE 1-B



RN 162784-05-6 CAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (9CI) (CA INDEX NAME)

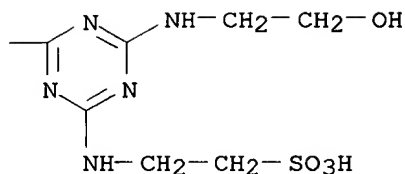
PAGE 1-A



● 4 Na

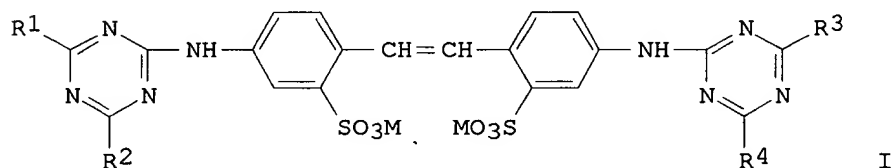
09/678,330

Page 20



L6 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2001 ACS
 AN 1990:88128 CAPLUS
 DN 112:88128
 TI Processing of color photographic material with bleach-fixing solution containing fluorescent brightener
 IN Ishikawa, Takatoshi
 PA Fuji Photo Film Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 40 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01158443	A2	19890621	JP 1988-4948	19880114
	JP 08033646	B4	19960329		
PRAI	JP 1987-219175		19870903		
GI					



AB A color photog. material is treated with a bleach-fixing soln. contg. a fluorescent brightener I [$\text{R}_1\text{-R}_4 = \text{OH}$, alkoxy, amino, alkylamino, aryloxy, arylamino; ($\text{R}_1 = \text{R}_3$) .noteq. ($\text{R}_2 = \text{R}_4$); ($\text{R}_1 = \text{R}_4$) .noteq. ($\text{R}_2 = \text{R}_3$); $\text{M} = \text{monovalent cation}$]. The bleach-fixing soln. contains an aminopolycarboxylate Fe(III) complex as bleach. This treatment provides improved bleachability and reduced stains.

IT **125368-19-6**

RL: USES (Uses)

(fluorescent brightener, photog. bleach-fixing soln. contg.)

RN 125368-19-6 CAPLUS

CN Benzenesulfonic acid,

5-[[4,6-bis[bis(2-hydroxyethyl)amino]-1,3,5-triazin-

2-yl]amino]-2-[2-[4-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]ethenyl]-, trisodium salt (9CI)

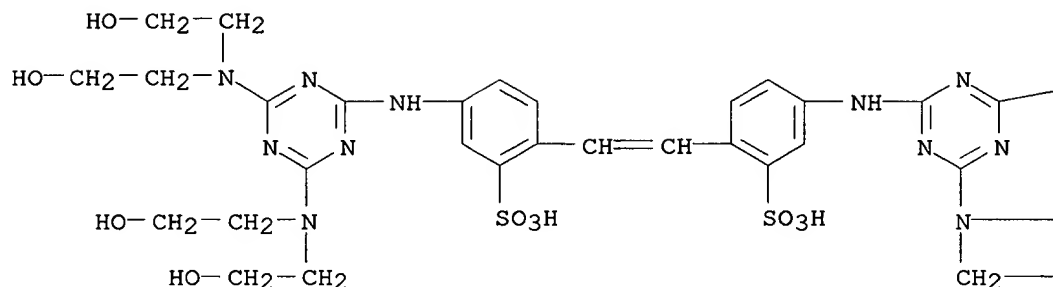
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(CA INDEX NAME)

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● 3 Na

PAGE 1-B

— NH—CH₂—CH₂—SO₃H

— CH₂—CH₂—OH

— CH₂—OH

L6 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2001 ACS
AN 1989:144850 CAPLUS
DN 110:144850
TI Direct positive color image formation
IN Shiba, Keisuke; Inoue, Akiyuki; Hioki, Tatsuo; Ueda, Shinji
PA Fuji Photo Film Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 51 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63193146	A2	19880810	JP 1987-25737	19870206
AB	The the title method (A) an internal latent image-type Ag halide grain				
has					

a 2-layer structure; the ratio of Ag halide in core/shell is 1/5:1-1:200;
core particle is chem. sensitized; chem. sensitization using Au salt and
09/678,330

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spectral sensitization using selected methine dye are carried out during or after formation of shell; and (B) color development is achieved by using a color developer with a pH of 9.5-11.5 in the presence of a nucleation promoter. A process time from initial color development to initial dry process is shorter than that for conventional process.

IT 119729-06-5

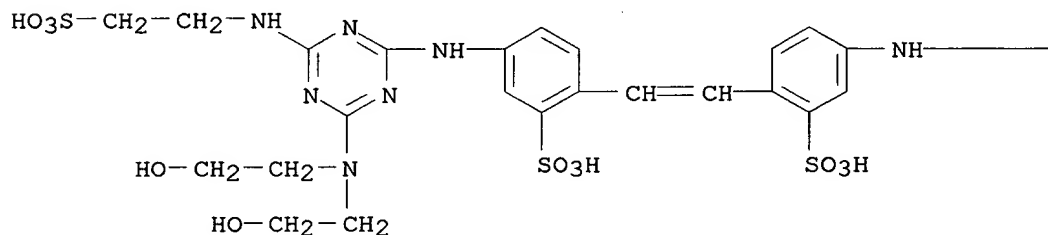
RL: USES (Uses)

(silver removal promoting agent, direct pos. color image formation using)

RN 119729-06-5 CAPLUS

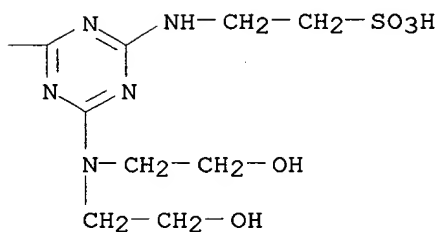
CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (9CI) (CA INDEX NAME)

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● 4 Na

PAGE 1-B



L6 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2001 ACS

AN 1984:87268 CAPLUS

DN 100:87268

TI Aqueous concentrates of water-soluble dyes and stilbene fluorescent brighteners

PA Showa Chemical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.

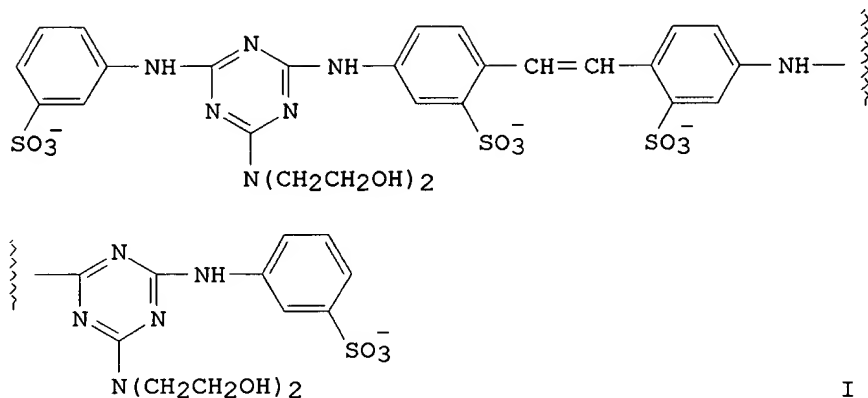
KIND DATE

APPLICATION NO. DATE

09/678,330

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PI	JP 58174448	A2	19831013	JP 1982-56670	19820407
GI					



AB Water-insol. metal salts (e.g., Ca salts) of anionic group-contg. water-sol. stilbene fluorescent brighteners and dyes are treated in water with a hydroxyalkylamine in the presence of an acid that dissocs. the metal salts, and the reaction mixts. are freed from the water-insol. materials formed to give the title concs. Thus, 2 mol cyanuric chloride [108-77-0] was condensed with 4,4'-diaminostilbene-2,2'-disulfonic acid [81-11-8] 1, metanilic acid [121-47-1] 2, and diethanolamine [111-42-2]

2

mol, treated with CaCl₂ and filtered to give a 50% filter cake. The filter cake contg. 46.2 g I Ca salt [88849-19-8] was treated with 20.2 g (HOCH₂CH₂)₂NH and 39.2 g 20% H₂SO₄ at alk. pH and 80-90.degree. for 1.5 h and filtered hot. The filter cake was washed with 20 mL water. The washing was combined with the filtrate and dild. with water to give a 35%-solids, yellowish-brown, clear soln. having excellent flowability, storability, and thinnability.

IT

88849-11-0P

RL: PREP (Preparation)

(fluorescent brighteners, aq. concs., manuf. of)

RN

88849-11-0 CAPLUS

CN

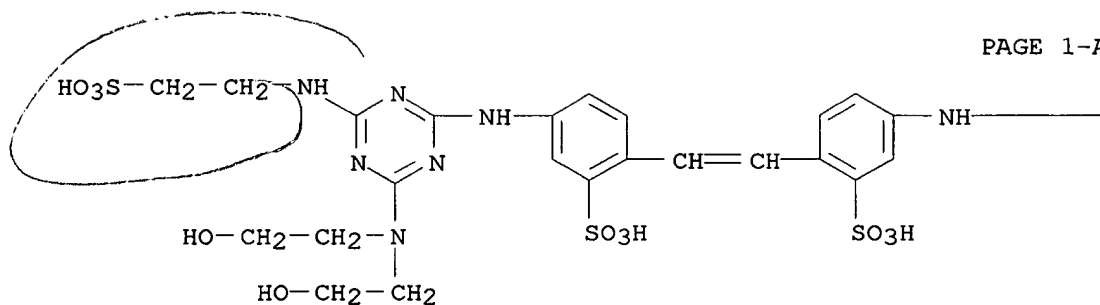
Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, compd. with 2,2'-iminobis[ethanol] (1:4) (9CI) (CA INDEX NAME)

CM 1

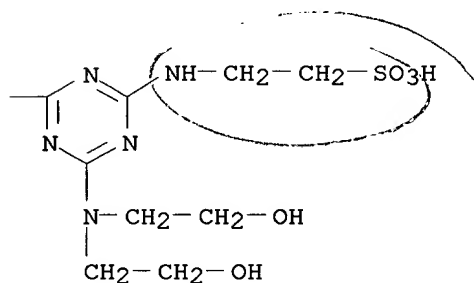
CRN 88849-10-9

CMF C32 H44 N12 O16 S4

PAGE 1-A



PAGE 1-B



CM 2

CRN 111-42-2

CMF C4 H11 N O2

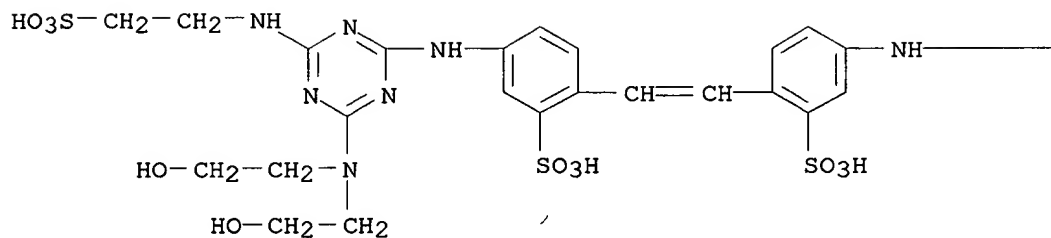
HO-CH₂-CH₂-NH-CH₂-CH₂-OH

IT 88849-00-7

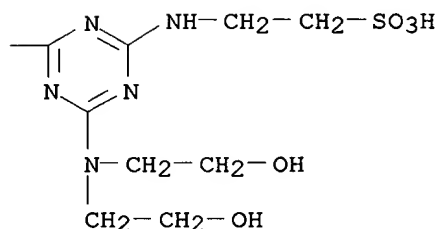
RL: PROC (Process)
(solubilization of)

RN 88849-00-7 CAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, calcium salt (1:2) (9CI) (CA INDEX NAME)



● 2 Ca



L6 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2001 ACS

AN 1974:97352 CAPLUS

DN 80:97352

TI Fluorescent whiteners

IN PirkI, Jaromir

SO Czech., 3 pp.

CODEN: CZXXA9

DT Patent

LA Czech

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CS 149743	B	19730823	CS 1969-2816	19690421
AB	Fluorescent whiteners (I, R = H, o- and p-Me, p-Cl; R1 = morpholino, Et2N,				

PhNH, m-HO3SC6H4NH; Z = CH:CH) were prepd. Thus, 4,2-H2N(HO3S)C6H3CH:CHC6H3(SO3H)NH2-2,4 and cyanuric chloride was condensed and the bis(chlorotriazinyl) compd. treated with phenyltaurine and morpholine to give fluorescent whitener I(R = H, R1 = morpholino) [51248-77-2]. The other I were similarly prepd.

IT **51358-19-1P**

RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

RN 51358-19-1 CAPLUS

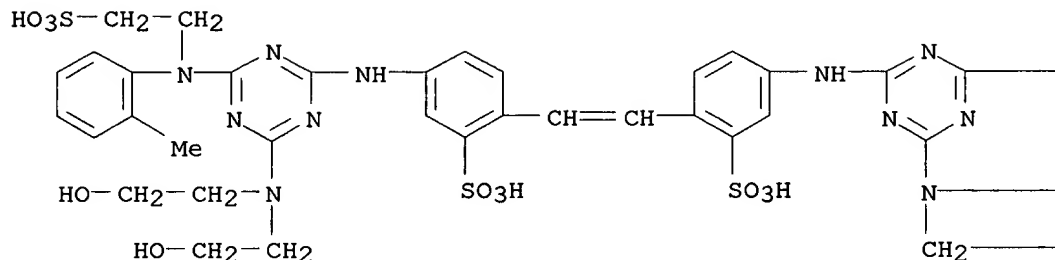
CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-

hydroxyethyl)amino]-6-[(2-methylphenoxy)ethyl]amino]-1,3,5-triazine]

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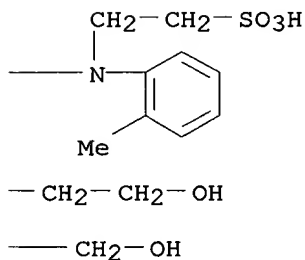
2-yl]amino]-, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● 2 Na

PAGE 1-B



L6 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2001 ACS
AN 1972:553926 CAPLUS
DN 77:153926
TI Stilbene fluorescent whitening agents
IN PirkI, Jaromir
SO Czech., 4 pp.
CODEN: CZXXA9
DT Patent
LA Czech
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CS 142270		19710815	CS 1969-2241	19690328
AB	Three fluorescent whiteners [I, R = N(CH ₂ CH ₂ OH) ₂ , MeO, Cl] for polyamide and cellulose fibers were prepd. which had good H ₂ O-soly., stability to heavy metals and lightfastness. For example, cyanuric chloride was condensed successively with HOCH ₂ CH ₂ NHCH ₂ CH ₂ SO ₃ Na, 2,4-NaO ₃ S(H ₂ N)C ₆ H ₃ CH:CHC ₆ H ₃ (NH ₂)SO ₃ Na-4,2, and (HOCH ₂ CH ₂) ₂ NH to give fluorescent whitener I[R = N(CH ₂ CH ₂ OH) ₂] [36903-13-6].				
IT	36903-13-6P RL: IMF (Industrial manufacture); PREP (Preparation) (prepn. of)				

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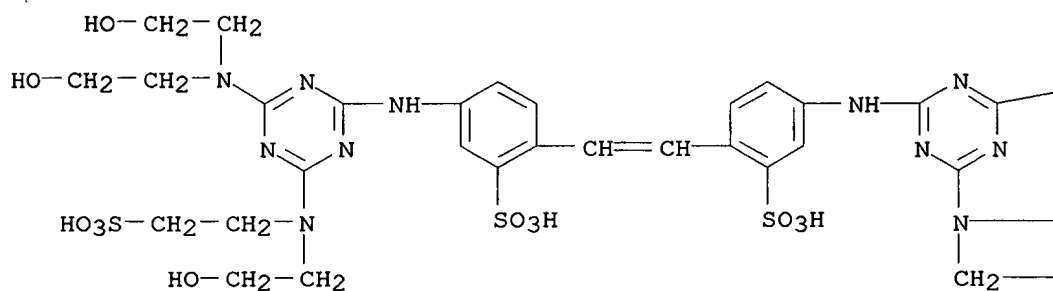
V. Balasubramanian

RN 36903-13-6 CAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-

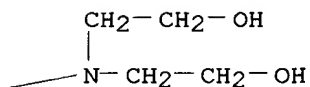
hydroxyethyl)amino]-6-[(2-hydroxyethyl)(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● 4 Na

PAGE 1-B



—CH₂-CH₂-SO₃H

—CH₂-OH

L6 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2001 ACS

AN 1971:100612 CAPLUS

DN 74:100612

TI 4,4'-Diaminostilbene-2,2'-disulfonates as whitening agents

IN PirkI, Jaromir

PA Vyzkumny Ustav Organickych Syntez

SO Ger. Offen., 11 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2015079	A	19701210	DE 1970-2015079	19700328

09/678,330

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PRAI CS 1969-2241 19690328

GI For diagram(s), see printed CA Issue.

AB The title compds. (I), fluorescent whitening agents for cellulose and polyamide materials were prepd. Thus, reaction of cyanuric chloride with HOCH₂CH₂NHCH₂CH₂SO₃H at 0-5.degree. and treatment of the reaction product successively with 4,4'-diamino-2,2'-stilbenedisulfonic acid and (HOCH₂CH₂)₂NH gave yellow powdery I [R = N(CH₂CH₂OH)₂]. Similarly were prepd. I (R = Cl) and I [R = N(CH₂CH₂OH)CH₂CH₂SO₃Na].

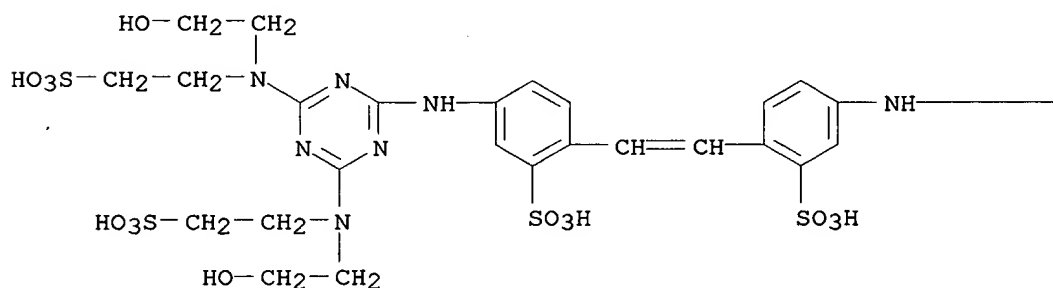
IT **31616-59-8P 31721-40-1P**

RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

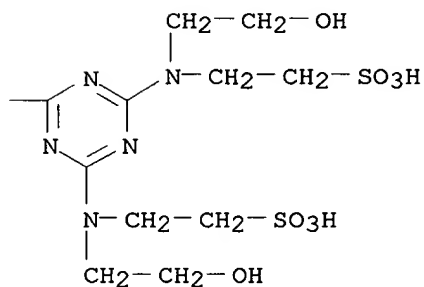
RN 31616-59-8 CAPLUS

CN 2,2'-Stilbenedisulfonic acid, 4,4'-bis[[4,6-bis[(2-hydroxyethyl)(2-sulfoethyl)amino]-s-triazin-2-yl]amino]- (8CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

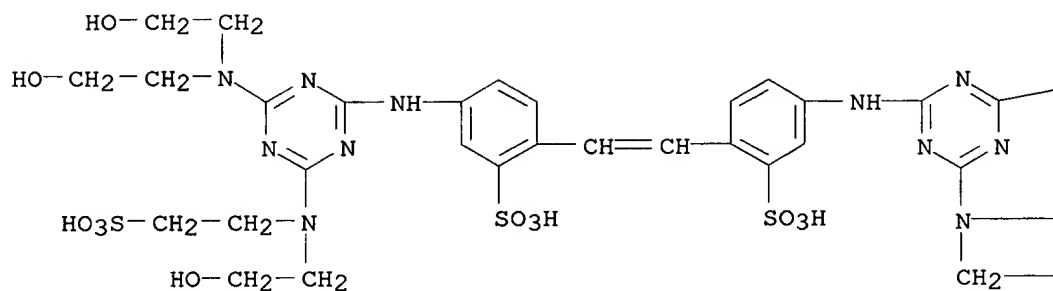


RN 31721-40-1 CAPLUS

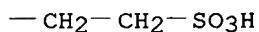
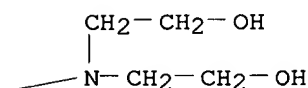
CN 2,2'-Stilbenedisulfonic acid,

4,4'-bis[[4-[bis(2-hydroxyethyl)amino]-6-[(2-hydroxyethyl)(2-sulfoethyl)amino]-s-triazin-2-yl]amino]- (8CI) (CA INDEX NAME)

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PAGE 1-B



L6 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2001 ACS
 AN 1971:88606 CAPLUS
 DN 74:88606
 TI Fluorescent whitening of fibers
 IN Hayakawa, Ginshichiro; Kenmoto, Takeshi; Nanbu, Morio
 PA Nisso Chemical Industries, Ltd.
 SO Japan., 6 pp.
 CODEN: JAXXAD
 DT Patent
 LA Japanese
 FAN.CNT 1

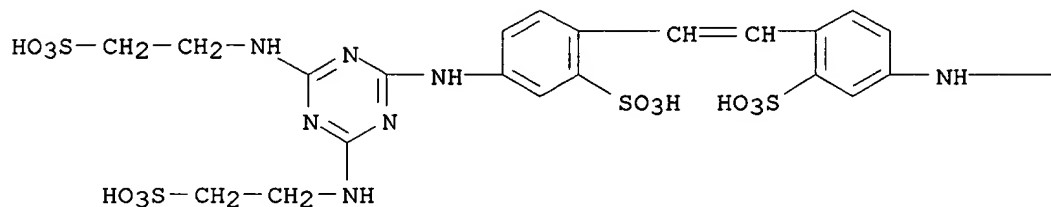
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 45027556	B4	19700909	JP	19660304

GI For diagram(s), see printed CA Issue.
 AB 4,4'-Diaminostilbene-2,2'-disulfonic acid derivs. [I, where R = H or Me and R1 and R2 = H or HOCH2CH2, or (R1R2 =) morpholin o], prepd. by the usual cyanuric chloride-amine condensation, are fluorescent whiteners for cotton textiles. Thus, cotton textiles were impregnated in a bath contg. 1:1 mixt. of I (R = R1 = H, R2 = HOCH2CH2) and NaCl.
 IT **21681-46-9**
 RL: USES (Uses)
 (fluorescent brightening agents, for textile)
 RN 21681-46-9 CAPLUS
 CN 2,2'-Stilbenedisulfonic acid,
 4-[[4,6-bis[(2-sulfoethyl) amino]-s

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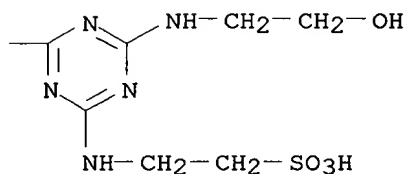
yl]amino]-4'-[[4-[(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-s-triazin-2-yl]amino]-, pentasodium salt (8CI) (CA INDEX NAME)

PAGE 1-A



●5 Na

PAGE 1-B



L6 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2001 ACS
AN 1970:426621 CAPLUS
DN 73:26621
TI 4,4'-Bis(1,3,5-triazin-6-ylamino)stilbene-2,2'-disulfonates as optical
whitening agents for textiles
IN Ohkawa, Masaaki; Matsuo, Masatoshi; Sakaguchi, Tado; Sato, Syozi
PA Sumitomo Chemical Co. Ltd.
SO Ger. Offen., 24 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 1946316	A	19700416	DE 1969-1946316	19690912
	DE 1946316	B2	19730405		
	DE 1946316	C3	19731031		
	GB 1268108	A	19720322	GB 1969-1268108	19690908
	NL 6913863	A	19700316	NL 1969-13863	19690911
	NL 159739	B	19790315		
	FR 2019428	A5	19700703	FR 1969-31014	19690911
	ES 371427	A1	19711016	ES 1969-371427	19690911
	CH 518955	A	19720215	CH 1969-518955	19690911
	BE 738842	A	19700216	BE 1969-738842	19690912

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PRAI JP 1968-65783 19680912

JP 1968-66312 19680914

GI For diagram(s), see printed CA Issue.

AB The title compds. (I), were prepd. and used as optical brightening agents during the final resin treatment of cotton or polyamide textiles. Thus I (R = morpholine) was prepd. from cyanuric chloride, 4,2-H₂N(HO₃S)C₆H₃CH:CHC₆H₃(SO₃H)NH₂-2,4, H₂NCH₂CH₂SO₃H, and morpholine. Similarly other I were prepd. (R given): HOCHMeCH₂NH; HOCH₂CH₂NH; HOCH₂CH₂NMe; (HOCH₂CH₂)₂N; (HOCHMeCH₂)₂N.

IT **28089-70-5P**

RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

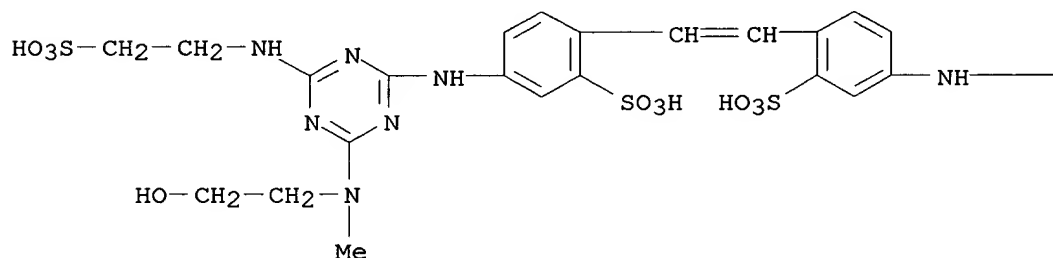
RN 28089-70-5 CAPLUS

CN 2,2'-Stilbenedisulfonic acid,

4,4'-bis[[4-[(2-hydroxyethyl)methylamino]-6-

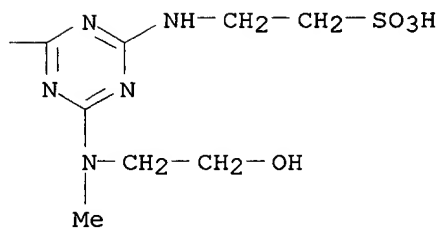
[(2-sulfoethyl)amino]-s-triazin-2-yl]amino]-, tetrasodium salt (8CI) (CA INDEX NAME)

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● 4 Na

PAGE 1-B



L6 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2001 ACS

AN 1969:422926 CAPLUS

DN 71:22926

TI Stilbene fluorescent whitening agents

IN Hayakawa, Ginshichiro; Kemimoto, Takeshi; Nambu, Morio

PA Nisso Chemical Industries, Ltd.

09/678,330

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V. Balasubramanian

SO Japan., 6 pp.
CODEN: JAXXAD

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 44006983	B4	19690327	JP	19660304
GI	For diagram(s), see printed CA Issue.				
AB	Compds. of the general formula I are optical brighteners for cellulose and				

polyamide fibers and are compatible with $MgCl_2$ or $Zn(NO_3)_2$ in resin treatment. Thus, a soln. of 3.7 g. cyanuric chloride in aq. Me_2CO was stirred at 0.degree., treated with 3.7 g. 4,2'- $H_2N(NaO_3S)C_6H_3CH:CHC_6H_3(SO_3Na)-NH_2-2,4$, followed by 3.75 g. $H_2NCH_2CH_2SO_3H$ (II) at 20.degree.. The mixt. was stirred for 2 hrs. at 40.degree. with the addn. of Na_2CO_3 , heated for 2 hrs. at 97.degree. with 1.05 g. $HN(CH_2CH_2OH)_2$, and salted to give I ($R = R_1 = HOCH_2CH_2$, $R_2 = H$), .lambda.max. 349 m.mu.; it brightened cotton cloth in the presence of glyoxal resin and $MgCl_2$. Also prepd. were the following I (R , R_1 , R_2 , and .lambda.max. in m.mu. given): $HOCH_2CH_2$, H, H, 348; (RR₁N =) morpholino, Me, 350. A similar product was prepd. by simultaneous addn. of 1:2:1 molar $H_2NCH_2CHOHMe$ -II-MeNHCH₂CH₂SO₃H.

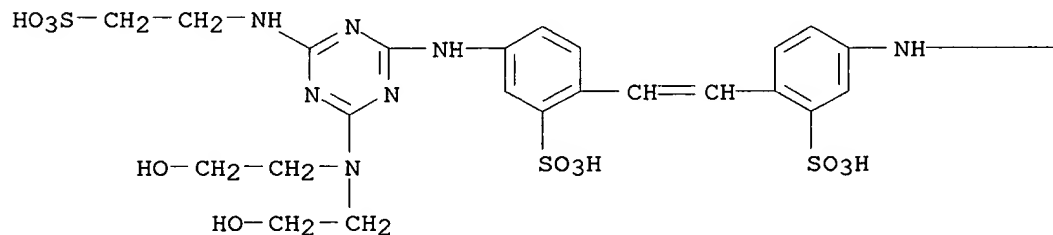
IT **21681-45-8P 21681-46-9P**

RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

RN 21681-45-8 CAPLUS

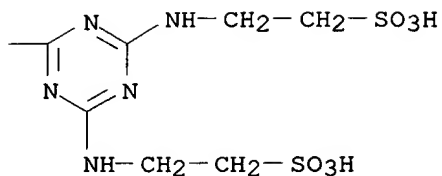
CN 2,2'-Stilbenedisulfonic acid, 4-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-s-triazin-2-yl]amino]-4'-[[4,6-bis[(2-sulfoethyl)amino]-s-triazin-2-yl]amino]-, pentasodium salt (8CI) (CA INDEX NAME)

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● 5 Na

PAGE 1-B



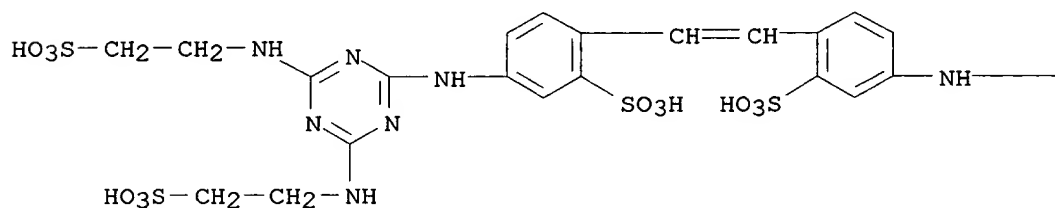
RN 21681-46-9 CAPLUS

CN 2,2'-Stilbenedisulfonic acid,

4-[[4,6-bis[(2-sulfoethyl)amino]-s-triazin-2-

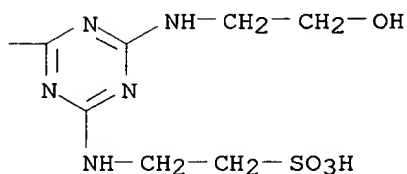
yl]amino]-4'-[[4-[(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-s-triazin-2-yl]amino]-, pentasodium salt (8CI) (CA INDEX NAME)

PAGE 1-A



● 5 Na

PAGE 1-B



=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

71.87

205.89

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-10.00

-10.00

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V. Balasubramanian

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